

a pixel portion including $m \times n$ pixels (m and n are both natural numbers and satisfy the relation $m < n$), said pixels each having a TFT;

a gate driver for feeding n gate signal lines with selection signals; *100 row*

a source driver for feeding m source signal lines with video data; and *200 col*

a video data converter circuit,

wherein said video data converter circuit converts a video data (h, k) ($h = 1, 2, 3, \dots, m-1, m$) and ($k = 1, 2, 3, \dots, n-1, n$) into another video data, and

wherein the video data (h, k) is converted into $\{m \times (k - 1) + h\}$ -th video data.

$$200 \times (k-1) + h$$

2. (Amended) A display device comprising:

a pixel portion including $m \times n$ pixels (in a pixel (h, k), ($h = 1, 2, 3, \dots, m-1, m$) and ($k = 1, 2, 3, \dots, n-1, n$), with m and n both being natural numbers and satisfying the relation $m < n$), said pixels each having a TFT;

a gate driver for feeding n gate signal lines with selection signals;

a source driver for feeding m source signal lines with video data; and

a video data converter circuit,

wherein said video data converter circuit converts a video data (h, k) ($h = 1, 2, 3, \dots, m-1, m$) and ($k = 1, 2, 3, \dots, n-1, n$) which is to be fed to said pixel (h, k) into another video data, and

wherein the video data (h, k) is converted into $\{m \times (k - 1) + h\}$ -th video data.

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3. A rear projector wherein three display devices according to claim 1 are used.
 4. A front projector wherein three display devices according to claim 1 are used.
 5. A rear projector wherein one display device according to claim 1 is used.
 6. A front projector wherein one display device according to claim 1 is used.
 7. Electronic equipment comprising a display device according to claim 1 is selected from the group consisting of a head mount display, a computer, a video camera, a DVD player, and display apparatus.
 8. A rear projector wherein three display devices according to claim 2 are used.
 9. A front projector wherein three display devices according to claim 2 are used.
 10. A rear projector wherein one display device according to claim 2 is used.
 11. A front projector wherein one display device according to claim 2 is used.
 12. Electronic equipment comprising a display device according to claim 2 is selected from the group consisting of a head mount display, a computer, a video camera, a DVD player, and display apparatus.

13. A display device according to claim 1 is a liquid crystal display device.

14. A display device according to claim 2 is a liquid crystal display device.

15. (Amended) A display device comprising:

a pixel portion including $m \times n$ pixels (m and n are both natural numbers and satisfy the relation $m < n$), said pixels each having a TFT;

a gate driver for feeding n gate signal lines with selection signals;

a source driver for feeding m source signal lines with video data; and

a video data converter circuit,

wherein said video data converter circuit converts a video data (h, k) $h = 1, 2, 3, \dots, m-1, m$ and ($k = 1, 2, 3, \dots, n-1, n$) into another video data;

wherein the video data (h, k) is converted into $\{m \times (k - 1) + h\}$ -th video data; and

wherein said video data converter circuit has a video formatter, a memory and an address generator.

16. Electronic equipment comprising a display device according to claim 15 is selected from the group consisting of a front projector, a rear projector, a head mount display, a computer, a video camera, a DVD player, and display apparatus.

17. A display device according to claim 15 is a liquid crystal display device.

a² 18.(Amended) A display device comprising:
a pixel portion including $m \times n$ pixels (m and n are both natural numbers and satisfy the relation $m < n$), said pixels each having a TFT;
a gate driver for feeding n gate signal lines with selection signals;
a source driver for feeding m source signal lines with video data; and
a video data converter circuit,
wherein said video data converter circuit converts a video data (h, k) $h = 1, 2, 3, \dots, m-1, m$ and ($k = 1, 2, 3, \dots, n-1, n$) into another video data,
wherein the video data (h, k) is converted into $\{m \times (k - 1) + h\}$ -th video data,
wherein said gate driver is formed at a lateral side of the pixel portion, and
wherein said source driver is formed at a longitudinal side of the pixel portion.

c 19. Electronic equipment comprising a display device according to claim 18 is selected from the group consisting of a front projector, a rear projector, a head mount display, a computer, a video camera, a DVD player, and display apparatus.

20. A display device according to claim 18 is a liquid crystal display device.

c a³ 21.(Amended) A display device comprising:
a pixel portion including $m \times n$ pixels (m and n are both natural numbers and satisfy the relation $m < n$), said pixels each having a TFT;
a gate driver for feeding n gate signal lines with selection signals;
a source driver for feeding m source signal lines with video data; and

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a video data converter circuit,

wherein said video data converter circuit converts a video data (h, k) $h = 1, 2, 3, \dots, m-1, m$ and $(k = 1, 2, 3, \dots, n-1, n)$ into another video data,

wherein the video data (h, k) is converted into $\{m \times (k - 1) + h\}$ -th video data, and

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wherein said plurality of gate signal lines are vertical and said plurality of source signal lines are horizontal.

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22. Electronic equipment comprising a display device according to claim 21 is selected from the group consisting of a front projector, a rear projector, a head mount display, a computer, a video camera, a DVD player, and display apparatus.

23. A display device according to claim 21 is a liquid crystal display device.

Please add following new claims:

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24.(New) A rear projector wherein three display devices according to claim 15 are used.

25. (New) A front projector wherein three display devices according to claim 15 are used.

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26. (New) A rear projector wherein one display device according to claim 15 is used.

27. (New) A front projector wherein one display device according to claim 15 is used.

28.(New) A rear projector wherein three display devices according to claim 18 are used.

29. (New) A front projector wherein three display devices according to claim 18 are used.

30. (New) A rear projector wherein one display device according to claim 18 is used.

31. (New) A front projector wherein one display device according to claim 18 is used.

32. (New) A rear projector wherein three display devices according to claim 21 are used.

33. (New) A front projector wherein three display devices according to claim 21 are used.

34. (New) A rear projector wherein one display device according to claim 21 is used.

35. (New) A front projector wherein one display device according to claim 21 is used.

36. (New) A display device comprising:

a pixel portion including $m \times n$ pixels (in a pixel (h, k) , $h = 1, 2, 3, \dots, m-1, m$ and $k = 1, 2, 3, \dots, n-1, n$), with m and n both being natural numbers and satisfying the relation $m < n$), said pixels each having a TFT;

a gate driver for feeding n gate signal lines with selection signals;

a source driver for feeding m source signal lines with video data; and

a video data converter circuit,

wherein said video data converter circuit converts a video data (h, k) ($h = 1, 2, 3, \dots, m-1, m$ and $k = 1, 2, 3, \dots, n-1, n$) which is to be fed to said pixel (h, k) into another video data,

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wherein the video data (h, k) is converted into $\{m \times (k - 1) + h\}$ -th video, and
wherein said video data converter circuit has a video formatter, a memory and an address
generator.

37. (New) A rear projector wherein three display devices according to claim 36 are used.

38. (New) A front projector wherein three display devices according to claim 36 are used.

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39. (New) A rear projector wherein one display device according to claim 36 is used.

40. (New) A front projector wherein one display device according to claim 36 is used.

41. (New) Electronic equipment comprising a display device according to claim 36 is
selected from the group consisting of a head mount display, a computer, a video camera, a DVD
player, and display apparatus.

42. (New) A display device according to claim 36 is a liquid crystal display device.

REMARKS

Applicant will address each of the Examiner's objections and rejections in the order in which
they appear in the Office Action.